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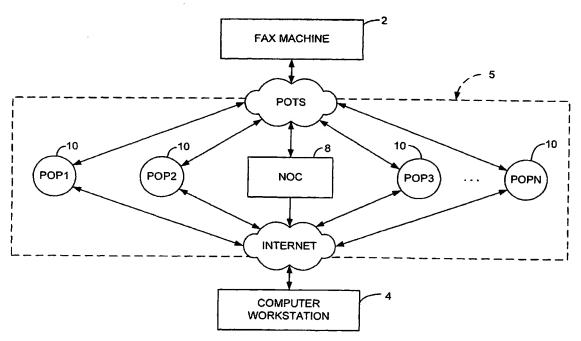
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(54) Title: FAX-TO-EMAIL AND EMAIL-TO-FAX COMMUNICATION SYSTEM AND METHOD



(57) Abstract: A facsimile/email communication system and method providing a user the ability to send emails from any standalone facsimile machine and providing a user the ability to logon to a centralized web server and send facsimiles to any standalone fax machine.

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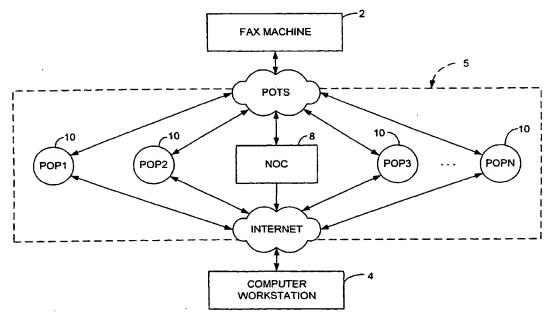
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(54) Title: FAX-TO-EMAIL AND EMAIL-TO-FAX COMMUNICATION SYSTEM AND METHOD



(57) Abstract: A facsimile/email communication system (5) and method provides a user with the ability to send emails from any standalone facsimile machine (2) and provides a user the ability to log on to a centralized web server (via 8) and send facsimiles to any standalone fax machine.



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IPC(7) :B41B 15/00 US CL :358/1.15 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 358/1.15,402,407,440,448; 382/317; 379/100.01,100.06,100.07,100.08,100.15,100.17 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST search terms: facsimile, email, download, web site, web address, web page, extract, URL, ad, advertisement C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to clain Y US 5,790,639 A (RANALLI et al.) 04 August 1998, col. 3, lines 4-9,14-21,27- 21-24	m No.
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FAX-TO-EMAIL AND EMAIL-TO-FAX COMMUNICATION SYSTEM AND METHOD

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BACKGROUND OF THE INVENTION

The present invention relates to a facsimile (fax)/electronic mail (email) communication system. More particularly, the present invention provides for, among other things, sending and/or receiving emails, web page downloads and faxes from any standalone fax machine. A web page is a file written in hypertext markup language (HTML) and which is stored on a web server. It may also refer to images that appear as part of the page when it is displayed by a web browser.

Fax images can be moved over the Internet by converting fax signals having a fax format to an email format (e.g. RFC-822). Once the conversion is completed, the email is then transferred over the Internet to the intended destination according to the Simple Mail Transfer Protocol (SMTP) or similar protocol. The Internet is the worldwide network of networks based on the TCP/IP (Transmission Control Protocol/ Protocol). Currently, there are various subscriber based service that permit a subscriber to send fax images over the Internet.

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According to one type of service, offered by companies such as eFax, Jfax, CallWave and Telebot, a subscriber is provided with a unique telephone number. Any documents faxed to that number are converted to email format and transferred to the subscriber's email inbox. One drawback of this type of service is that it requires the subscriber to have a specific telephone number associated with their email address. A second drawback is that the subscriber must distribute the personal fax telephone number to any persons who would potentially want to send a fax to the subscriber. Finally, this type of service is expensive to operate from the service provider's perspective since the

costs associated with buying and operating so many individual and dedicated phone numbers is very high.

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Another type of service is the service offered by UUNET, which requires a subscriber to attach additional hardware between the subscriber's fax machine and the service's network. The purpose of this service is to reduce long distance faxing costs for high volume users. The UUNET system converts a fax to the equivalent of an email and then routes the email over UUNET's network to the nearest UUFAX server. The UUFAX server converts the email back to fax format and transmits the fax using a local UUFAX server converts the email back to fax format and transmits the fax using a local call to the fax machine at the destination. A drawback of this type of service is that it takes time and up-front hardware additions and expenditures to have access to the service.

SUMMARY OF THE INVENTION

Generally, the present invention comprises a facsimile/email communication system and method, whereby a user is able to send emails from any standalone facsimile machine and is also able to send facsimiles to any standalone fax machine, from either a centralized web server or a client machine connected to the Internet.

According to one aspect of the invention, a system for communicating an email from a facsimile is provided. An exemplary embodiment of this system comprises: a facsimile server configured to receive, from a start location, a facsimile in a facsimile image format, the facsimile including an email address; a character recognizer in communication with the facsimile server and configured to extract the email address; a first format converter configured to receive the facsimile and convert the facsimile to an email in an email format; an email server configured to receive the email and extracted email address and transmit the email to an end location identified by the email address; and an advertisement server configured to generate a confirmation page incorporating an advertisement on the confirmation page.

According to a second aspect of the invention, a method of communicating an email from a facsimile is provided. An exemplary embodiment of this method comprises the steps of: receiving a facsimile in a facsimile image format from a start location, the facsimile including an email address; extracting the email address from the facsimile; converting the facsimile image format to an email having an email format; and generating a confirmation page having an advertisement therein.

According to a third aspect of the invention, a system for communicating between facsimile and email is provided. An exemplary embodiment of this system comprises: a network operating center; and a plurality of geographically distributed points of presence in communication with the network operating center, each point of presence having, a facsimile server configured to receive, from a start location, a facsimile in a facsimile image format, the facsimile including an email address; a character recognizer in communication with the facsimile server and configured to extract the email address; a first format converter configured to receive the facsimile and convert the facsimile to an email in an email format; an email server configured to receive the email and extracted email address and transmit the email to an end location identified by the email address; and an advertisement server configured to generate a confirmation page incorporating an advertisement on the confirmation page.

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According to a fourth aspect of the invention, a system for communicating a facsimile from an email is provided. An exemplary embodiment of this system comprises: a network operating center having a web server to which a user can log on to over the Internet to compose an email, the web server configured to capture a facsimile number contained within the email; and a plurality of geographically distributed points of presence in communication with the network operating center, each point of presence having, an email server configured to receive the email in an email format; a first format converter in communication with the email server and configured to convert it into a facsimile having a facsimile image format; an advertisement server having a return facsimile page composer and configured to generate a return facsimile page incorporating an advertisement; a second format converter configured to receive and convert the facsimile and return facsimile page to a facsimile encoded bitmap image; and a fax spooler configured to receive the facsimile encoded bitmap image and transmit it to a destination identified by the facsimile number.

According to a fifth aspect of the invention, a method of communicating a facsimile from an email is provided. An exemplary embodiment of this method comprises the steps of: logging onto a web server of a network operating center; composing an email having a facsimile number therein; capturing the facsimile number; converting the email to a facsimile; generating a return facsimile page; incorporating an advertisement in the return facsimile page; and sending the facsimile and return facsimile page to a destination identified by the facsimile number.

A further understanding of the nature and advantages of the inventions herein may be realized by reference to the remaining portions of the specification and the attached drawings.

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BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a block diagram of the system, according to an exemplary

FIG. 2 is a block diagram showing a hardware configuration of a Point of embodiment of the present invention. Presence (POP) providing a fax/email interface according to an exemplary embodiment

FIG. 3A is an illustration of a process of obtaining an address page, of the present invention. according to an exemplary embodiment of the present invention.

FIG. 3B is an illustration of a process of a user interacting with the system of the present invention to send an email from a fax machine, according to an exemplary

FIG. 4 is an exemplary illustration of an address page received from the embodiment of the present invention. POP of FIG: 2.

FIG. 5 is a block diagram showing the software architecture of the POP of

FIG. 6 is an exemplary illustration of a fax-to-email confirmation page FIG. 2. received from the POP of FIG. 2. 20

FIG. 7 is a block diagram of a network operations center (NOC).

FIG. 8A is an illustration of a process of a user interacting with the system of the present invention to send a fax from an email, according to an exemplary

FIG. 8B is an illustration of a reply process wherein a recipient of the fax, embodiment of the present invention. delivered in the process according to FIG. 8A, replies to the fax using a return fax page.

DESCRIPTION OF THE SPECIFIC EMBODIMENTS

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FIG. 1 is a high-level block diagram of a facsimile/email communication system 5 according to one embodiment of the present invention. System 5 comprises a network operations center (NOC) 8, selectively coupled to both the Plain Old Telephone System (POTS) and the Internet, and a plurality of Points of Presence (POPs) 10 selectively coupled to NOC 8 via the POTs and the Internet. The "Internet," as meant

here, means the worldwide network of networks based on the TCP/IP protocol and all means of access thereto (e.g. a local area network having an email system and being coupled to the Internet). (TCP/IP stands for "Transmission Control Protocol/ Protocol" and is a language governing communication between all computers on the Internet.)

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As will be explained in detail below, system 5 permits a user to, among other things, send an e-mail from any standalone fax machine 2 and receive faxes from a fax or email sender without having to distribute a unique and predefined fax number to the fax or email sender. Here, it should be emphasized that the fax machine 2, as shown in FIG. 1, is only a working example. In other words fax machine as it is used in the context of the present invention may also comprise any facsimile protocol compliant communication device. Similarly, computer workstation 4, in FIG. 1, is only a working example. In other words any device that is capable of sending an email may be used instead of computer workstation 4.

POPs 10 are distributed over a wide geographic area, for example, the United States or throughout the world. An exemplary embodiment of a POP 10 is shown in FIG. 2. POP 10 comprises one or more fax modem banks 20; one or more fax servers 22; an advertisement and statistics (ad/stat) server 24; an email server 26; an interactive voice response (IVR) unit 28; an Ethernet switch 30; an IP router 32; and a T-1 channel service unit (CSU) 34. It should be emphasized that the embodiment of POP 10 in FIG. 2 is only exemplary. For example, other configurations are within the spirit and scope of the present invention, including but not limited to use of higher-capacity Internet access lines (e.g. T-3), provision for multiple switched email servers, etc. FIGS. 1 and 2 will be described in further detail in the context of the description presented below.

Referring now to FIG. 3A, there is shown an illustration of how a user obtains an "address page" from a fax server 22, according to an exemplary embodiment of the present invention. At step 40, the user dials a specific toll-free (e.g. 1-800) fax-back number from any fax machine or telephone. This fax-back number is routed by the telephone network via the POTS to a POP 10, based on the user's geographic locale. As shown in FIG. 2, fax modem bank 20 of POP 10 receives the fax over, for example, a B-1 line, which comprises 24-line telephone bundle. Then, at step 42, POP 10 sends a blank email "address page" back to the user with further instructions on how to send an email from the user's fax machine.

The email address page looks like a normal fax cover sheet, but it contains lines of blank character boxes and a local telephone number the user can use so that the

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fax can be sent without the user having to incur any cost. The local telephone number is WO 01/73998 generated by a table driven translation process through automatic number identification, detectable from outbound 1-800 numbers. In an alternative embodiment each POP 10 of system 5 would be accessible using a single toll-free number. An exemplary email address page is shown in FIG. 4. In one embodiment the character boxes 61 have "tickmarks" 63 on the edges of each character box 61. Tickmarks 63 have the effect of coercing the user to enter characters in the character boxes 61 but away from the character box edges. Characters entered away from the character box edges is beneficial, since later in the process, when character recognition is performed, the characters can be 10

Referring now to FIG. 3B, there is shown an illustration of how a user identified more accurately. interacts with the system 5 of the present invention to send an email from a fax machine, 2 according to an exemplary embodiment of the present invention. At step 44, the user fills in the letterboxes, in normal handwriting, with the final email address(es) it wishes to send to, e.g., "john_doe@generic.com". Alternatively, the email address can be printed in a machine-readable format. In an alternative embodiment, the email address page includes an "advanced features page," which can be downloaded to the user's fax so that

At step 46, the user sends the fax to the local number of the selected POP the user can create a group distribution list. 10, where it is received by a fax modem bank 20 on fax server 22. Fax modem bank 20 includes an incoming fax spooler 60, which converts the fax to an image file format, which may be, for example the standard G3 TIFF format and then temporarily stores the imaged fax in a spool area on a local disk drive (not shown in the figures). The imaged email address page is then transmitted to one of the fax servers 22 of POP 10 for further 25

In addition to fax spooler 60, and as is shown in FIG. 5, the software architecture 70 for each fax server 22 comprises a front page (i.e. address page) character processing. recognition module 62, a fax-to-email gateway 64, a email-to-fax gateway 66 and an

At step 48, front page character recognition module 62 operates to extract outgoing fax spooler 68. the imaged email address from the imaged email address page. Preferably, front page character recognition module 62 does this by optical character recognition (OCR). At step 50, the electronic image of the fax is encapsulated and formatted

into a MIME-compliant email message by fax-to-email gateway 64. "MIME" stands for-

<u>Multipurpose Internet Mail Extensions</u> and refers to an official Internet standard that specifies how email messages must be formatted so that they can be exchanged between different email systems. The electronic image of the fax is then transmitted to email server 26 as an attachment to the email.

Upon receipt of the fax image by email server 26, email server 26 transmits the delivery status of the email to advertisement and statistics server (ad/stat server) 24. As shown in FIG. 5, the software architecture 71 of ad/stat server 24 comprises a confirmation and instruction page composer 72, a title page composer 74 and a PostsScript rendering engine 76. Confirmation and instruction page composer 72 receives the delivery status of the email from email server 26 and subsequently generates delivery or non-delivery notifications and user instruction pages in PostScript format.

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At step 52, confirmation and instruction page composer 72 generates a confirmation and instruction page, and, at step 54, retrieves advertisements from ad/stat server 24 and incorporates the advertisements into the confirmation and instruction page. Additionally, at step 56, confirmation and instruction page composer 72 retrieves advertisements from ad/stat server 24, which are incorporated, e.g. in banner format into the email. Preferably, the advertisements incorporated in the confirmation and instruction page are specifically targeted to the user's geographic locale. The system 5 determines the user's geographic locale from the user's fax number's prefix and area code and advertisements are then targeted based on demographic data characteristic of the user's neighborhood, e.g., average income bracket. In an alternative embodiment, the email address confirmation page includes an electronic commerce aspect, wherein the user is provided with a "check box" on the confirmation and instruction page, which the user can check to indicate further interest in a particular advertising offer. An exemplary embodiment of a confirmation and instruction page is shown in FIG. 6.

In yet another alternative embodiment, a toll-based (e.g. 1-900) number is provided to the user at the beginning of the process, i.e., in lieu of step 10 in FIG. 3A, to provide a user with the option between the free advertising subsidized service described above or a pay-per-use service where the confirmation and instruction page does not incorporate advertisements.

After the confirmation and instruction page has been composed, it is rasterized into a fax encoded bitmap image by PostScript rendering engine 76 and then sent to fax server 22 where outgoing fax spooler 68 operates to store the rasterized confirmation and instruction page on a local disk drive for subsequent delivery. Because

bitmap image rendering is a computationally intensive process, a custom load-sharing software for distributing the rasterization process between a number of fax servers 22 machines may be employed as an alternative embodiment.

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At steps 58, the email (with the advertisements) is sent over the Internet to the intended recipient using, for example, SMTP protocol, and as an attachment in a standard format, e.g. GIF file, viewable on the majority of platforms.

Finally, at step 59, the confirmation and instruction page is sent over the POTS to the user, the confirmation and instruction page incorporating an advertisement

At this point, it should be emphasized that, whereas the software modules of the software architecture of FIG. 5 are shown to be distributed over multiple servers, as explained above. one skilled in the art would understand that all the software modules could reside on a single server or on different servers than is shown in the embodiment of FIG. 5.

In an alternative embodiment, a user can interact with the system of the present invention to send a facsimile from any standalone facsimile machine to any other standalone facsimile machine. To do this, the user procures a "facsimile number page," as for example, similar to procuring the "email address page" described above in relation to steps 40 and 42. The user then enters a facsimile number of the intended facsimile recipient, for example, in handwritten format or printed machine readable format, and then faxes the facsimile to the local number of the selected POP 10 as in steps 44 and 46 described above (or, alternative, enters a pay-per-use toll-based number as is also described above). Upon receipt of the facsimile by the selected POP 10, the facsimile number is then extracted and the electronic image of the facsimile is formatted into a MIME-compliant email message by fax-to-email gateway 64, similar to steps 48 and 50 above. Next, email server 26 transmits the MIME image to an email-to-fax gateway 66, which could reside on a different POP 10, where the email-to-fax gateway 66 converts the MIME image into a text-formatted (e.g. PostScript) file. Then, PostScript rendering 25 engine 96 operates to rasterize the text-formatted file into a fax encoded bit map image. And, finally, outgoing fax spooler 68 receives the fax encoded bit map image and transmits it to the intended facsimile recipient. 30

In yet another embodiment of the present invention, webpages can be downloaded via fax. In this embodiment, a user is provided with an "address page" as described above. This address page provides letterboxes for entering the desired web address (which, for example can be entered in normal handwriting or printed in a machine

readable format) and an indicator of some sort, which the user can use to request the number of pages from the web address the user wishes to download. One type of indicator on the address page, for example, could be a series of bubbles positioned at predetermined positions on the address page.

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Referring now to FIG. 7, there is shown a network operations center (NOC) 8, according to an exemplary embodiment of the present invention. NOC 8 functions as the system headquarters and is configured to communicate with all POPs 10, as was shown and described in reference to FIG. 1. NOC 8 comprises an Internet access router and firewall component (IP router) 82 coupled between the Internet via, for example, a T1 channel service unit (CSU) 84 and an Ethernet switch 86 (at a data rate of, for example, 100 Mbps); a web server 88 coupled to IP router 82; a private branch exchange (PBX) 90 coupled to the telephone network via, for example, a B-1 line; an interactive voice response (IVR) unit 92 coupled to PBX 90 and a computer-telephony integrated (CTI) server 94 coupled between IVR unit 92 and Ethernet switch 86. Also coupled to Ethernet switch 86 is an NOC statistics server 96; an NOC advertisement statistics server 98; NOC workstations 100; and administrative/development workstations 102.

NOC advertisement statistics server 98 stores, and makes available to advertisers, statistics relating to the advertiser's advertisement(s), for example, the number of times the advertisement was sent, the number of positive responses from viewers of the advertisement, etc.

NOC administrative/development workstations function as a help desk to those users who log on to web server 88 and also allow the system provider to do development, for example, improving the functionality of the web site provided by web server 88.

IVR unit 92 permits a user to dial into the NOC via PBX 90 using the same 1-800 toll free access number used in the initiation of a fax-to-email process described above. IVR 92 provides user's with voice prompts, which the user can respond to using the telephone keypad. The prompts may relate to, for example, use instructions or may permit a user to download information from the Internet, e.g. stock quotes, weather predictions, travel information, etc.

In another embodiment of the present invention, a user can logon to web server 88 from, for example, a computer workstation 4 (See FIG. 1), and then send a fax

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from an email to any standalone fax machine. An exemplary process for accomplishing WO 01/73998

At step 110, after the user logs on to web server 88 (See FIG. 7), the user this is shown in FIG. 8A. sends an email to web server 88. Then, at step 112, web server 88 captures and stores the user's email address and the fax number to which the user wishes to send the fax. This information is relayed over the Internet to email server 26 of the, preferably, nearest POP 10, to which the fax number is associated. As shown in FIG. 5, each email server 26 contains a mail transfer agent 39, which accepts the email from NOC 8. Email-to-fax gateway 66 then operates to convert the email message into PostScript text.

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At step 114 title page composer 74 generates a return fax page, and, at step 116 retrieves advertisements from ad/stat server 24 and incorporates the advertisements into the return fax page. Preferably, the advertisements are specifically targeted to the fax recipient's location. The system 5 determines this from the recipient's fax number's prefix and area code by comparing the numbers to area code and prefix numbers stored in ad/stat server 24. Once the neighborhood is identified, advertisements are then targeted based on demographic data characteristic of the recipient's neighborhood, e.g., average income bracket. In an alternative embodiment, the return fax page includes an electronic commerce aspect, wherein the fax recipient is provided with a "check box" on the return fax page, which the recipient can check to indicate further interest in a particular 20

After the return fax page has been composed, it and the converted fax advertising offer. image are rasterized into a fax encoded bitmap image by PostScript rendering engine 76 and then sent to a fax modem bank 20 of POP 10 where outgoing fax spooler 68 operates to store the rasterized fax and return fax page on a local disk drive for subsequent

At step 118, the fax and return fax page are sent over the POTS to the fax delivery.

Referring now to FIG. 8B, at step 120, upon receipt of the fax and return fax page, the fax recipient uses the return fax page to reply to the fax and sends the reply recipient. fax at step 122.

At step 124, title page composer 74 of ad/stat server 24 operates to generate a confirmation page incorporating a second advertisement, which is then, at step 126, sent back to the return fax page user. Steps 124 and 126 substantially follow the steps 54 and 59 as described in reference to the fax-to-email process of FIG. 3B.

The advertising subsidized aspect of the system and method of the present invention also allows a user to send a fax from any standalone fax machine to any other standalone fax machine for free, thereby avoiding long distance telephone charges, which are typically billed for any long-distance fax transmission. To accomplish this, a user simply dials the toll free (1-800) access number, as explained above, to obtain a local number to a POP 10. Local POP 10 then responds by faxing back an address page to the user. Steps 44 through 48 are then performed, as was described in relation to FIG. 3B, followed by steps 110 through 118 as was described previously in relation to FIG. 8A. The only difference from the process as described above would be to provide letterboxes for fax addresses on the address page and provide for OCR capability for extracting fax addresses.

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In another alternative embodiment of the present invention, NOC 8 includes a local database (not shown in FIG. 7), which is configured to store a frequent user's email address book. The user can logon to web server 88, upload the address book and associate nicknames or real names with each email address (e.g. "John Doe" for john_doe@generic.com). By doing this, the user can then send emails from any standalone fax machine simply by filling in the letterboxes of the address page (as described previously with respect to FIG. 3B) with the nickname or real name of the intended recipient.

Finally, in another exemplary embodiment of the present invention, advertisers are provided with a "dynamic print advertising" service, whereby an advertiser can logon to web server 88 of NOC 8, open an account, create advertisements and customize them based on specific demographic information.

In summary, the method and apparatus of the present invention permits a user to, among other things, send an e-mail from any standalone fax machine; receive a fax from another without requiring the user to have previously procured and distributed a unique and predefined fax number; and send a fax from an email by logging onto a web server provided by a centralized operating center.

Although the invention has been described in terms of preferred methods and structure, it will be obvious to those skilled in the art that many modifications and alterations may be made to the disclosed embodiments without departing from the invention. Hence, these modifications and alterations are intended to be considered as within the spirit and scope of the invention as defined by the appended claims.

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WHAT IS CLAIMED IS:	of for communicating an email to an email destination from
a facsimile protocol compliant a facsimile serv compliant communication dev including a representation of a character rec configured to extract the ema a first format facsimile image format to an and an email ser address and transmit the er communication device co a facsimile image format to an an email ser address and transmit the er communication device co a facsimile image format to an an email ser address and transmit the er communication device co	of for communicating an emain to device communication device, comprising: er configured to receive, from the facsimile protocol fice, a facsimile in a facsimile image format, the facsimile an email address that references the email destination; an email address that references the email destination; an email address from the facsimile; converter configured to receive the facsimile and convert the an email format suitable for transport over an email system; ver configured to receive the email and extracted email mail to the email destination. system of claim 1, wherein the facsimile protocol compliant mprises a facsimile machine. the system of claim 2, wherein the facsimile machine is and copy of the facsimile, the hard copy having a cover page these positioned at a predetermined location on the cover page. The system of claim 1, further comprising an advertisement server the email server and configured to receive a delivery status from the email server and configured to receive a delivery status from
the email server. 1 5. 2 confirmation page confirmation page configured to receive a notifications.	The system of claim 4, wherein the advertisement server includes a imposer configured to generate a confirmation page. The system of claim 5, wherein the confirmation page composer is the delivery status and generate delivery and non-delivery. The system of claim 6, wherein the facsimile server is configured and non-delivery notifications in facsimile format for transmission otocol compliant communication device.

1	8. The system of claim 5, wherein the confirmation page composer is
2	
3	
1	9. The system of claim 8, wherein the facsimile server is configured
2	to receive the confirmation page in facsimile format for transmission to the facsimile
3	protocol compliant communication device.
1	10. The system of claim 1, wherein the character recognizer extracts
2	the email address by optical character recognition.
1	11. The system of claim 1, wherein the email address is handwritten.
1	12. The system of claim 1, wherein the email address is printed in a
2	machine readable format.
1	13. The system of claim 1, wherein the advertisement server is further
2	configured to store advertising statistics.
1	14. A method of communicating an email to an email destination from
2	a facsimile protocol compliant communication device, the method comprising the steps
3	of:
4	receiving a facsimile in a facsimile image format from the facsimile
5	protocol compliant communication device, the facsimile including a representation of an
6	email address that references the email address;
7	extracting the email address from the facsimile;
8	converting the facsimile image format to an email format suitable for
9	transport over an email system; and
0	generating a confirmation page.
1	15. The method of claim 14, wherein the facsimile protocol compliant
2	communication device comprises a facsimile machine.
1	16. The method of claim 14, further comprising the step of requesting,
2	via the facsimile protocol compliant communication device, a facsimile cover page
3	having a predefined position for accepting the emoil address

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wherein the step of extracting is	
WO 01/73998 The method of claim 14, wherein the step of extracting is	
: A	
performed by optical character recognition. 2 performed by optical character recognition.	
colorm 14. Who	
18. The memory of the mail address is printed in a	
method of claim 14, when	
4	
1 2 machine readable format. 2 machine readable format.	
2 machine readable format. 20. The method of claim 14, further comprising the step of	•
The method of claim 1-1, 200	
1 20. The method of claim 20, further comprising the step of delivering 2 incorporating an advertisement on the confirmation page. 21. The method of claim 20, further comprising the step of delivering	
The method of claim 20, further comprising and 21. The method of claim 20, further comprising and 21. the confirmation page to the facsimile protocol compliant communication device. the confirmation page to the facsimile protocol growth pages from a web site to a facsimile	
is confirmation page to the facsimile	
the confirmation page to the facsimile protocol of the confirmation page to the facsimile the confirmation page to the facsimile the confirmation page to the facsimile and the method comprising the steps of:	
22. A method of downloading web pages from a 1 22. A method of downloading web pages from a 1 protocol compliant communication device, the method comprising the steps of: 2 protocol compliant communication device, the method comprising the steps of: 2 protocol compliant communication device, the method comprising the steps of: 2 protocol compliant communication device, the method comprising the steps of:	
22. A method of 1 2 protocol compliant communication device, the method comprising the steps 2 protocol compliant communication device, the method comprising the steps 2 protocol compliant communication device, the method comprising the steps 2 protocol compliant communication device, the method comprising the steps 2 protocol compliant communication device, the method comprising the steps 2 protocol compliant communication device, the method comprising the steps 2 protocol compliant communication device, the method comprising the steps 2 protocol compliant communication device, the method comprising the steps 2 protocol compliant communication device, the method comprising the steps 3 protocol compliant communication device, the method comprising the steps 4 protocol compliant communication device, the method comprising the steps 4 protocol compliant communication device, the method comprising the steps 4 protocol compliant communication device, the method comprising the steps 4 protocol compliant communication device, the method comprising the steps 4 protocol compliant communication device, the method comprising the steps 4 protocol compliant communication device, the method comprising the steps 4 protocol compliant communication device, the method comprising the steps 4 protocol compliant communication device, the method comprising the steps 4 protocol compliant communication device, the method comprising the steps 4 protocol compliant communication device, the method comprising the steps 4 protocol compliant communication device, the method comprising the steps 4 protocol compliant communication device, the method comprising the steps 5 protocol compliant communication device, the method comprising the steps 5 protocol compliant communication device, the method comprising the steps 5 protocol compliant communication device, the method comprising the steps 5 protocol compliant communication device, the method comprising the steps 5 protocol compliant communication device, the step	
2 protocol compitant out a facsimile in a facsimile image form	
receiving a lace. 3 receiving a lace. 3 receiving a lace. 4 receiving a lace. 4 receiving a lace. 5 receiving a lace.	
protocol compliant communication receiving a facsimile in a facsimile image format from receiving a facsimile in a facsimile including a representation of a web site compliant communication device, the facsimile including a representation of a web site compliant communication device, the facsimile including a representation of a web site compliant communication device, the facsimile image format from receiving a facsimile image from recei	
4 compliant of the web site and a number of the	
receiving a lacinization of lacinization are receiving a lacinization are	
6 web site; extracting the web site address from the resource from the web site address; connecting to the web site identified by the web site address;	
X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
downloading the pages from the web stry downloading the pages from the web stry downloading the pages from the web stry and converting the pages to a facsimile image format; and converting the pages to a facsimile image formatted pages to the facsimile machine.	
converting the pages to the race image formatted pages to the race	
downloading the pages to a facsimile image format; and converting the pages to a facsimile image formatted pages to the facsimile machine. transmitting the facsimile image formatted pages to the facsimile machine.	,
11 calaim 22, further comprising the stop of	
transmitting the facsimile image results. The method of claim 22, further comprising the step of requesting, 23. The method of claim 22, further comprising the step of requesting, via the facsimile protocol compliant communication device, a facsimile cover page via the facsimile protocol compliant communication device, a facsimile cover page.	
via the facsimile protocol compliant communities. via the facsimile protocol compliant communities. having a predefined position for accepting the web site address. having a predefined position for accepting the web site address.	
3 having a predefined position for acceptance having a predefined position for acceptance and have a predefined position for acceptance and having a predefined position for a	
3 having a process	
24. The memory — ition	
performed by optical character recognition. 2 performed by optical character recognition.	
2 performed by open.	
2 performed by optical character recognized performed performed by optical character recognized performed perf	
1	
2 handwritten.	
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26.

1 The method of claim 22, wherein the web site address is printed in 2 a machine readable format. 1 27. A system for communicating an email to an email destination from 2 a facsimile protocol compliant communication device, comprising: 3 a network operating center; and 4 a plurality of geographically distributed points of presence in 5 communication with the network operating center, each point of presence having, a facsimile server configured to receive, from the facsimile 6 protocol compliant communication device, a facsimile in a facsimile image 7 8 format, the facsimile including a representation of an email address that references 9 the email destination; 10 a character recognizer in communication with the facsimile server and configured to extract the email address from the facsimile; 11 a first format converter configured to receive the facsimile and 12 13 convert the facsimile to an email having a format suitable for transport over an 14 email system; and 15 an email server configured to receive the email and extracted email 16 address and transmit the email to the email destination. 28. 1 The system of claim 27, wherein the facsimile protocol compliant 2 communication device comprises a facsimile machine. 29. The system of claim 27, wherein the facsimile protocol compliant 1 2 communication device is configured to receive a hard copy of the facsimile, the hard copy having a cover page including the email address positioned at a predetermined location on 3 4 the cover page. 1 30. The system of claim 27, wherein the cover page is provided by the 2 network operating center via a toll-free telephone number. The system of claim 27, wherein each point of presence includes an 1 31. advertisement server in communication with the associated email server and configured 2 to receive a delivery status from the email server. 3

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د ماء:	im 31, wherein the advertisement server includes
a confirmation page composer composer	the confirmation page composer
2 a commission of classification of classification and commission of classification	aim 32, wherein the confirmation page composer
33. The system	itus and generate delivery and no-
l configured to receive the delivery sta	aim 32, wherein the community is a sent and generate delivery and non-delivery
	The second of th
3 notifications.	laim 33, wherein the facsimile sort for transmission
34. The system of the system o	claim 33, wherein the facsimile server is a server is
1 aire the delivery and non-delive	Ty house
to the facsimile protocol compliant of	ommunication and a page composer
3 to the facsimile pro-	-loim 32, wherein the confirmation page and
35. The system of	claim 32, wherein the confirmation page composer dvertisement from the advertisement server and confirmation page.
1 figured to retrieve an a	dvertisement
2 is further configured to retrieve an a 3 incorporate the advertisement on the	e confirmation page.
3 incorporate the advertises	wherein the facsimile server is control
36. The system	of claim 35, wherein the facsimile server is configured
1 s-region page in	facsimile lorization
2 to receive the communication	of claim 35, wherein the facsimile so to the facsimile a facsimile format for transmission to the facsimile on device.
 to receive the confirmation? protocol compliant communication 	n device. of claim 27, wherein the character recognizer extracts
-1 -rictett	of Claim 27,
1 37. The system 2 the email address by optical char	acter recognition.
2 the email address by option	of claim 27, wherein the email address is handwritten.
38. The system	m of claim 27, wherein the email address is printed in a e^{2} m of claim 27, wherein the email address is printed in a
1	folgin 27, wherein the email address is re-
1 2 machine readable format.	tem of claim 27, wherein the network operating center
2 machine readdoo	of claim 27, wherein the network operation
40. The sys	:4- +he
1 2 further comprises:	ent and statistics server in communication with the
2 further company an advertisement	ent and statistics and operable to store advertisements
3	points of presence and or
4 advertisement servers	ent and statistics server in communication who
• • • • • • • • • • • • • • • • • • •	1 anatallia com
A1 The s	ystem of claim 40, when yet and with the advertisement and
1 ices voice inte	eractive means for community
2 further comprises voice	system of claim 40, wherein the network operating by stem of claim 40, wherein the network operating with the advertisement and eractive means for communicating with the advertisement and entry input.
further compresses statistics server using voice	· · · ·
-	

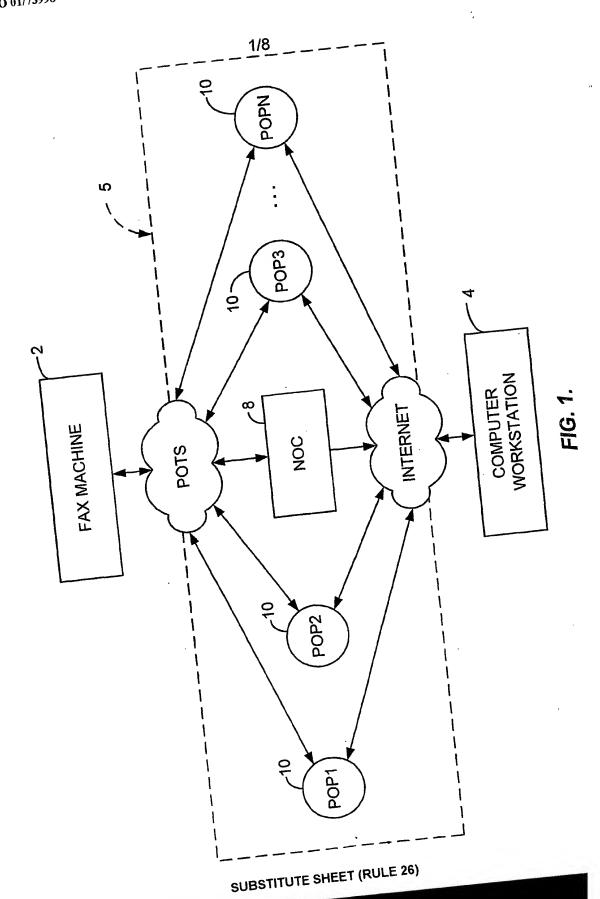
1	42. A system for communicating a facsimile to a facsimile destination
2	from an email protocol compliant communication device, comprising:
3	a network operating center having a web server to which a user can log on
4	to over the Internet to compose an email, the web server configured to capture a
5	representation of a facsimile number contained within the email that references the
6	facsimile destination; and
7	a plurality of geographically distributed points of presence in
8	communication with the network operating center, each point of presence having,
9	an email server configured to receive the email in an email format;
10	a first format converter in communication with the email server and
11	configured to convert the email to a facsimile having a facsimile image format;
12	an advertisement server having a return facsimile page composer
13	and configured to generate a return facsimile page incorporating an advertisement;
14	a second format converter configured to receive and convert the
15	facsimile and return facsimile page to a facsimile encoded bitmap image; and
16	a facsimile server configured to receive the facsimile encoded bitmap
17	image and transmit it to the facsimile destination.
1	43. The system of claim 42, wherein the network operating center,
2	further comprises:
3	a database in communication with the web server to which the user can
4	upload an address book having a list of names and associated facsimile numbers.
1	44. The system of claim 42, wherein the network operating center
2	further comprises:
3	an advertisement and statistics server in communication with the web
4	server, the web server further configured to permit an advertiser to open an account and
5	upload advertisements to the advertisement and statistics server.
1	45. The system of claim 44, wherein the network operating center
2	further comprises:
3	interactive voice response means for communicating with the
4	advertisement and statistics server and the web server.

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. 12 destination

WO 01/73998 46. A method of communicating a facsimile to a facsimile destination from an email input, comprising the steps of: logging onto a web server of a network operating center; logging onto a web server of a representation of a facsimile number that composing an email including a representation of a facsimile number that references the facsimile destination;
from an email input, comprising the steps of: logging onto a web server of a network operating center; composing an email including a representation of a facsimile number that composing an email including a representation,
logging onto a value destination;
logging onto a value destination;
composing an email including 4 4 destination;
4 destination;
5 references the facsimile destination,
converting the email to a lacousting
generating a return facsimile page; generating a return facsimile page; incorporating an advertisement in the return facsimile page; and incorporating an advertisement facsimile page to the facsimile
8 generating an advertisement in the return racing the facsimile
incorporating an advertisement in the return re- incorporating an advertisement re- incorporation
sending the lacsimate
struction facilities for the struction for the s
11 destination.
1 47. A system for communicating a latest 1 1 from a facsimile protocol compliant communication device, comprising: 2 from a facsimile protocol compliant communication device, comprising: 2 from a facsimile server configured to receive, from the facsimile format, the facsimile
from a facsimile protocol compliant of greed to receive, from the facsimile protocol
1 2 from a facsimile protocol compliant communication device, compared to receive, from the facsimile protocol a facsimile server configured to receive, from the facsimile facsimile
3 device, a lacsimile desimile
a facsimile server of a facsimile in a facsimile image format, and compliant communication device, a facsimile in a facsimile image format, and compliant communication device, a facsimile in a facsimile image format, and compliant communication of a facsimile number that references the facsimile destination; including a representation of a facsimile number that references the facsimile server and including a representation of a facsimile number that references the facsimile server and including a representation of a facsimile number that references the facsimile destination;
compliant communication do a facsimile number that references the facsimile server and including a representation of a facsimile number that references the facsimile server and a character recognizer in communication with the facsimile server and a character recognizer in communication that references the facsimile server and including a representation of a facsimile number from the facsimile;
o facsimile number —
a character recognizer in community a character recognizer in community configured to extract the facsimile number from the facsimile; configured to extract the facsimile number from the facsimile; a first format converter configured to receive the facsimile and convert the a first format converter configured to receive the email and extracted facsimile facsimile image format to an email format suitable for transport over an email system; a facsimile image format to an email format suitable for transport over an email system; a facsimile image format to an email format suitable for transport over an email system;
a first format suitable for transport over an email format suitable for transport over an extracted facsimile
a first format of a first format suitable for transport over the grant to an email format suitable for transport over the grant and extracted facsimile an email server configured to receive the email and extracted facsimile
an email server configured to
10 set the email server and
an email server an email server number; a second format converter in communication with the email server and a second format converter in to a facsimile image having a facsimile
number; a second format converter in communication with the same a second format converter in communication with the same as second format convert it to a facsimile image having a facsimile configured to receive the email and convert it to a facsimile image having a facsimile
13 configured to receive —
image format. 14 image format. The system of claim 47, further comprising an advertisement server
The system of claim 4/, fulfill to the receive a delivery status from
1
14 image forms 48. The system of claim 47, further comprising an advers 1 48. The system of claim 47, further comprising an advers 1 in communication with the email server and configured to receive a delivery status from 2 in communication with the email server and configured to receive a delivery status from
3 the email server.
the email server. The system of claim 48, wherein the advertisement server includes 49. The system of claim 48, wherein the advertisement page.
1 acomposer configured to generate a commindate
49. The system of claim 48, wherein the definition of the system of claim 48, wherein the definition of the system of claim 48, wherein the definition of the system of claim 48, wherein the definition of the system of claim 48, wherein the definition of the system of claim 48, wherein the definition of the system of claim 48, wherein the definition of the system of claim 48, wherein the definition of the system of claim 48, wherein the definition of the system of claim 48, wherein the definition of the system of claim 48, wherein the definition of the system of claim 48, wherein the definition of the system of claim 48, wherein the definition of the system of the sy

1	50	The system of claim 49, wherein the confirmation page composer
2	is configured to re	eceive the delivery status and generate delivery and non-delivery
3	notifications.	
1	51	The system of claim 50, wherein the facsimile server is configured
2	to receive the deli	very and non-delivery notifications in facsimile format for transmission
3	to the facsimile pr	otocol compliant communication device.
1	52.	The system of claim 49, wherein the confirmation page composer
2	is further configur	ed to retrieve an advertisement from the advertisement server and
3		vertisement on the confirmation page.
1	53.	The system of claim 52, wherein the facsimile server is configured
2	to receive the conf	irmation page in facsimile format for transmission to the facsimile
3		communication device.
1	54.	The system of claim 47, wherein the character recognizer extracts
2	the facsimile numb	er by optical character recognition.
1	55.	The system of claim 47, wherein the facsimile number is
2	handwritten.	
1	56.	The system of claim 47, wherein the facsimile number is printed in
2	a machine readable	format.



AMENDED CLAIMS

[received by the International Bureau on 27 December 2001 (27.12.01); original claims 1-56 replaced by amended claims 1-52; (8 pages)]

	1. A system for communicating an empile.
	1. A system for communicating an email to an email destination from 2 a facsimile protocol compliant communication device, comprising:
	a facsimile server configured to receive s
	a facsimile server configured to receive, from the facsimile protocol compliant communication device a facsimile is a facsimile in the facsimile protocol
	compliant communication device, a facsimile in a facsimile image format, the facsimile including an email address corresponding to the email destination;
	6 a character recognizer in assure to the email destination;
	a character recognizer in communication with the facsimile server and configured to extract the email address from the facsimile;
	a first format converter and
9	a first format converter configured to receive the facsimile and convert the
10	facsimile image format to an email format suitable for transport over an email system;
11	an email server confirm 1
12	an email server configured to receive the email and extracted email address and transmit the email to the email destination.
	destination.
1	2. The system of claim 1, wherein the facsimile protocol compliant
2	communication device comprises a facsimile machine.
1	
2	of Claim 2, wherein the faccimile was a second
3	configured to receive a hard copy of the facsimile, the hard copy having a cover page
	including the email address positioned at a predetermined location on the cover page.
1	4. The system of claim 1, further comprising an advertisement server
2	in communication with the email server and configured to receive a delivery status from
3	the email server.
1	
2	5. The system of claim 4, wherein the advertisement server includes a
3	page composer configured to generate a configuration page have
5	facsimile image format.
1	6. The system of claim 5 miles in
2	6. The system of claim 5, wherein the confirmation page composer is configured to receive the delivery status and generate delivery and non-delivery
3	notifications.

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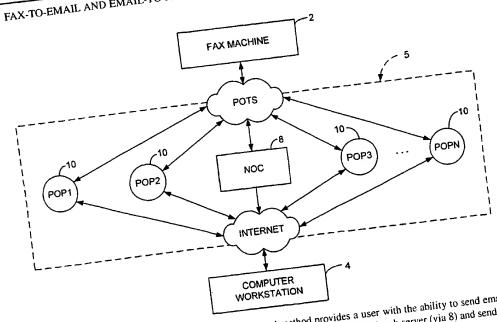
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(54) Title: FAX-TO-EMAIL AND EMAIL-TO-FAX COMMUNICATION SYSTEM AND METHOD



(57) Abstract: A facsimile/email communication system (5) and method provides a user with the ability to send emails from any (5/) Abstract: A facsimile/email communication system (5) and method provides a user with the ability to send emails from any standalone facsimile machine (2) and provides a user the ability to log on to a centralized web server (via 8) and send facsimiles to any standalone fax machine

1	7. The system of claim 6, wherein the facsimile server is configured	
2	to receive the delivery and non-delivery notifications in facsimile format for transmission	
3		
1	8. The system of claim 5, wherein the confirmation page composer is	
2	further configured to retrieve an advertisement from the advertisement server and	
3	incorporate the advertisement on the confirmation page.	
1	9. The system of claim 8, wherein the facsimile server is configured	
2	to receive the confirmation page in facsimile format for transmission to the facsimile	
3	protocol compliant communication device.	
1	10. The system of claim 1, wherein the character recognizer extracts	
2	the email address by optical character recognition.	
1	11. The system of claim 1, wherein the email address is handwritten.	
1	12. The system of claim 1, wherein the email address is printed in a	
2	machine readable format.	
1	13. The system of claim 4, wherein the advertisement server is further	
2	configured to store advertising statistics.	
1	14. A method of communicating an email to an email destination from	
2	a facsimile protocol compliant communication device, the method comprising the steps	
3	of:	
4	sending a facsimile in a facsimile image format from the facsimile	
5	protocol compliant communication device to a remote operating center, the facsimile	
6	including an email address corresponding to the email destination;	
7	extracting the email address from the facsimile;	
8	converting the facsimile image format to an email format suitable for	
9	transport over an email system to the email destination; and	
10	generating a confirmation page in the facsimile image format, at the	
11	remote operating center, and sending the confirmation page to the facsimile protocol	
12	compliant communication device.	

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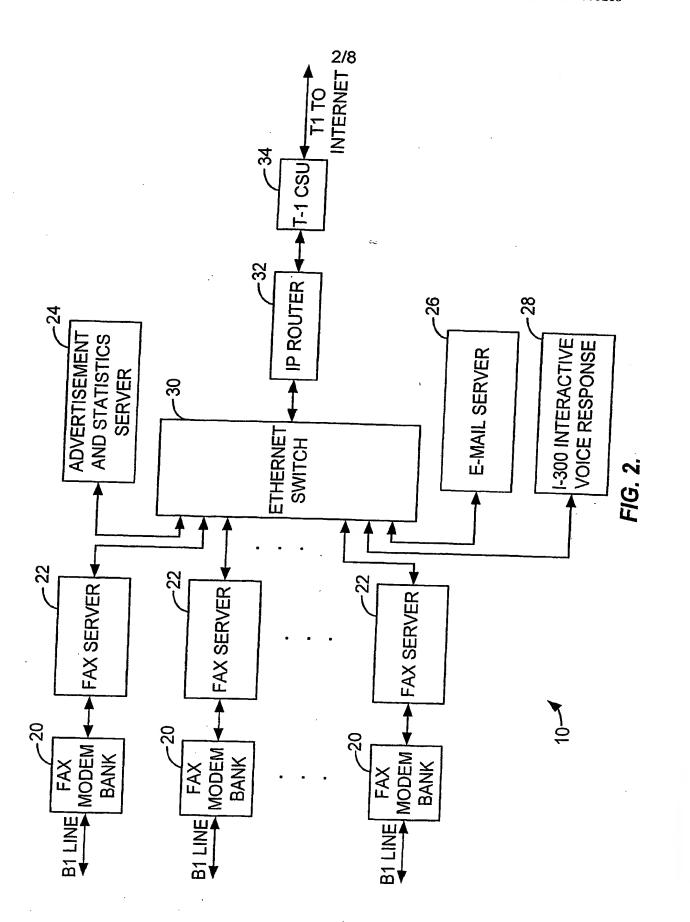
WO 01/13990	s simile protocol compliant
	of claim 14, wherein the facsining provided
15. The method of	of claim 14, wherein the facsimile protocol compliant
1 15. The method of communication device comprises a	tacsimile man
2 communication do	of claim 14, wherein the facsimile includes a cover
16. The method	of Claim 119
	The second of a Diogram
2 page having the eman day	of claim 14, wherein the facsimile more states at a predetermined location on the cover page.
The metho	d of claim 16, further comprising, prior to the step of
1 2 sending, a step of receiving, by the sending a step of receiving of and from the remote operating contains and from the remote oper	enter, the facsimile cover page.
and from the remote operating o	nod of claim 14, wherein the step of extracting is
The meth	od of claim 14, wherein the see
1 18. The same 18.	thod of claim 14, wherein the email address is handwritten.
19. The mov	thod of claim 14, wherein the email address is printed in a
The me	thod of claim 14, wherein the care
1	
l machine readable format.	a comprising the step of
	nethod of claim 14, further comprising the step of
a incorporating an advertisement	ent on the
2 incorporating	method of claim 21, further comprising the step of delivering e facsimile protocol compliant communication device.
the confirmation page to th	ystem for communicating an email to an email destination from
2 the community	ustem for communicating an email to day
23. Asi	state communication device, comprising.
a facsimile protocol comp	ystem for communication device, comprising: pliant communication device, comprising: onerating center; and
3	of geographically distributed from the facsimile
4	facsimile server server server and a facsimile image
5	facsimile server configured to receive, from a facsimile image ant communication device, a facsimile in a facsimile image
6 protocol compile	including an email address corresponding
format, the facs	ant communication device, a facsimile in a random and communication device, a facsimile in a random and address corresponding to the email simile including an email address corresponding to the email
destination;	in communication with the laboration
8	a character recognized
9	a character recognizer in community
10 and comig-	

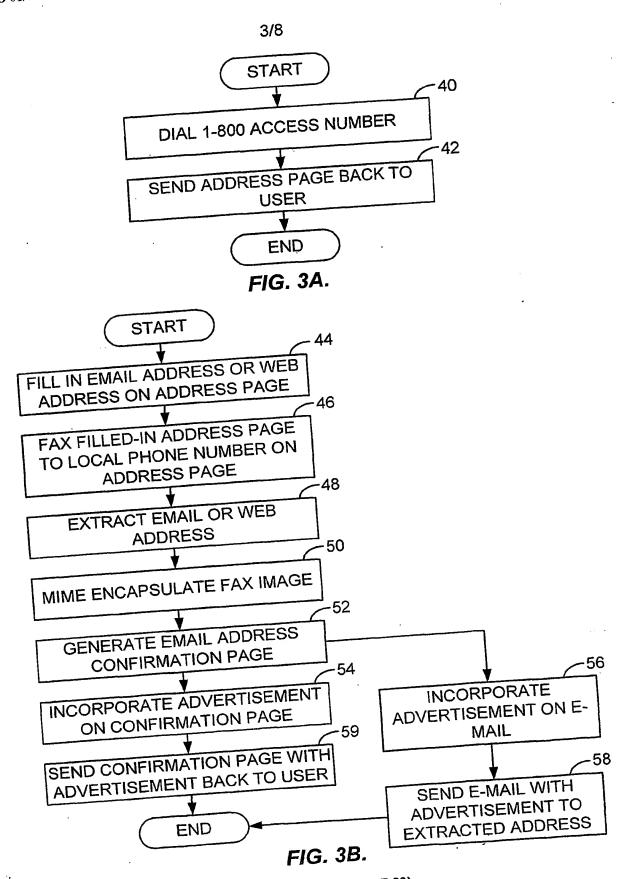
11	a first format converter configured to receive the facsimile and	
12		
13	email system; and	
14	an email server configured to receive the email and extracted email	
15	address and transmit the email to the email destination.	
1	24. The system of claim 23, wherein the facsimile protocol compliant	
2	communication device comprises a facsimile machine.	
1	25. The system of claim 23, wherein the facsimile protocol compliant	
2	communication device is configured to receive a hard copy of the facsimile, the hard copy	
3	having a cover page including the email address positioned at a predetermined location on	
4	the cover page.	
1	26. The system of claim 25, wherein the cover page is provided by the	
2	network operating center via a toll-free telephone number.	
1	27. The system of claim 23, wherein each point of presence includes an	
2	advertisement server in communication with the associated email server and configured	
3	to receive a delivery status from the email server.	
1	28. The system of claim 27, wherein the advertisement server includes	
2	a confirmation page composer configured to generate a confirmation page.	
1	29. The system of claim 28, wherein the confirmation page composer	
2	is configured to receive the delivery status and generate delivery and non-delivery	
3	notifications.	
1	30. The system of claim 29, wherein the facsimile server is configured	
2	to receive the delivery and non-delivery notifications in facsimile format for transmission	
3	to the facsimile protocol compliant communication device.	
1	31. The system of claim 28, wherein the confirmation page composer	
2	is further configured to retrieve an advertisement from the advertisement server and	
3	incorporate the advertisement on the confirmation page.	

•••		a simila server is configured
	22 T	he system of claim 31, wherein the facsimile server is configured
1	32.	he system of claim 31, wherein the received the facsimile ion page in facsimile format for transmission to the facsimile
2 to rece	eive the confirmat	ion page
3 protoc		
	22	The system of claim 23, wherein the character 1900
1		etical character recognition.
2 the er	mail address by o	The system of claim 23, wherein the email address is handwritten.
4	34.	The system of claim 23, wherein are
1		The system of claim 23, wherein the email address is printed in a
1	35.	
2 mac	hine readable for	mat.
_		The system of claim 23, wherein the network operating center
1	36.	
2 fur	ther comprises:	vertisement and statistics server in communication with the
3	an au	vertisement and statistics server in communication was all vertisements and error of the points of presence and operable to store advertisements and
4 ad	vertisement serve	ts of the person
	vertising statistic	ALA MARWAIK UDULAMAND
	37.	The system of claim 36, wherein the network operating center voice interactive means for communicating with the advertisement and
1	descentives	voice interactive means for communicating with a
2 ft	tatistics server us	
3 s	tatistics server us	A system for communicating a facsimile to a facsimile destination
1	38	A system for communicating and A system for communicating and system for computation
2	from an email pro	A system for communication device, comprising: otocol compliant communication device, comprising: network operating center having a web server to which a user can log on
2	a	network operating control is a control configured to capture a
3	to over the Intern	net to compose an email, the web server control
	corresentation 0	net to compose an email, the web server contage f a facsimile number contained within the email that references the
5	facsimile destin	ation; and
6	facsimile design	ation; and a plurality of geographically distributed points of presence in
7	insting	with the network operating center, each point of presence having, with the network operating center, each point of presence having, with the network operating center, each point of presence having,
8	communication	with the network operating center, each point of part and email server configured to receive the email in an email format;
9		
10		
11	config	an advertisement server having a return facsimile page composer
12		an advertisement server having a return tecorporating an advertisement; onfigured to generate a return facsimile page incorporating an advertisement;
13	and co	ontigured to golden.

14	a second format converter configured to receive and convert the
15	
16	
17	
1	39. The system of claim 38, wherein the network operating center,
2	further comprises:
3	a database in communication with the web server to which the user can
4	upload an address book having a list of names and associated facsimile numbers.
1	40. The system of claim 38, wherein the network operating center
2	further comprises:
3	an advertisement and statistics server in communication with the web
4	server, the web server further configured to permit an advertiser to open an account and
5	upload advertisements to the advertisement and statistics server.
1	41. The system of claim 40, wherein the network operating center
2	further comprises:
3	interactive voice response means for communicating with the
4	advertisement and statistics server and the web server.
1	42. A method of communicating a facsimile to a facsimile destination
2	from an email input, comprising the steps of:
3	logging onto a web server of a network operating center;
4	composing an email including a representation of a facsimile number that
5	references the facsimile destination;
6	capturing the facsimile number;
7	converting the email to a facsimile;
8	generating a return facsimile page;
9	incorporating an advertisement in the return facsimile page; and
10	sending the facsimile and return facsimile page to the facsimile
11	destination.
1	43. A system for communicating a facsimile to a facsimile destination
2	from a facsimile protocol compliant communication device comprising:

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a facsimile server configured to receive, from the facsimile protocol a facsimile server configured to receive, from the facsimile protocol compliant communication device, a facsimile in a facsimile image format, the facsimile compliant communication device, a facsimile in a facsimile destination; including a representation of a facsimile number that references the facsimile server and a character recognizer in communication with the facsimile server and configured to extract the facsimile number from the facsimile; a first format converter configured to receive the facsimile and convert the facsimile image format to an email format suitable for transport over an email system; an email server configured to receive the email and extracted facsimile	
number; a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format converter in communication with the email server a second format convert	
image format. 14 image format. 15	
the email server. The system of claim 44, wherein the advertisement server includes a confirmation page composer configured to generate a confirmation page. The system of claim 45, wherein the confirmation page composer The system of claim 45, wherein the confirmation page composer significantly and some composer and generate delivery and non-delivery significantly and some composer and generate delivery and non-delivery	
notifications. 47. The system of claim 46, wherein the facsimile server is configured to receive the delivery and non-delivery notifications in facsimile format for transmission to the facsimile protocol compliant communication device. The system of claim 45, wherein the confirmation page composer 48. The system of claim 45, wherein the advertisement server and is further configured to retrieve an advertisement from the advertisement server and	
is further configured to retrieve and incorporate the advertisement on the confirmation page. The system of claim 48, wherein the facsimile server is configure to receive the confirmation page in facsimile format for transmission to the facsimile protocol compliant communication device.	bė





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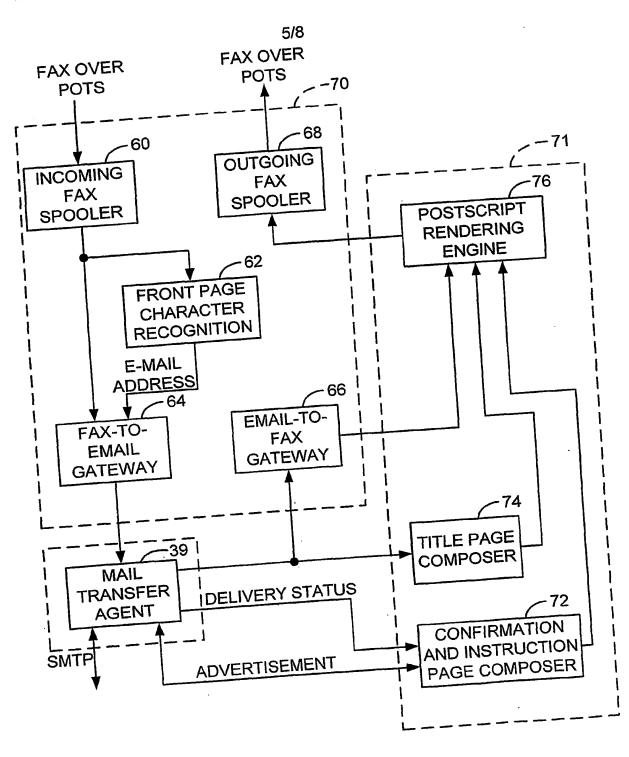


FIG. 5.

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MongoFax Confirmation Page:

Your transmission was sent to the following e-mail address(s) or fax number(s)

E-Mail: john_doe@generic.com E-Mail: jane_doe@generic.com Fax #: (415) 555.5555

If any of these addresses or fax numbers are incorrect, please carefully fill out a new e-mail address page and re-send.

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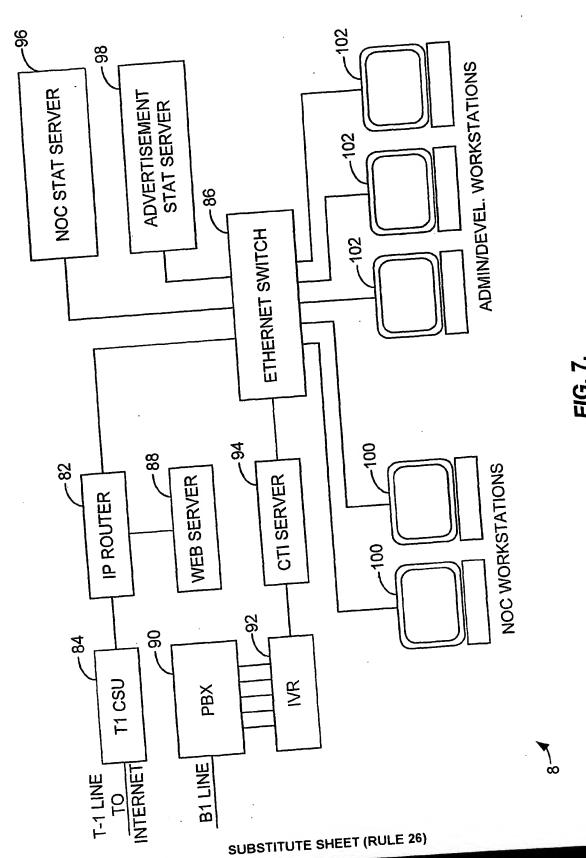
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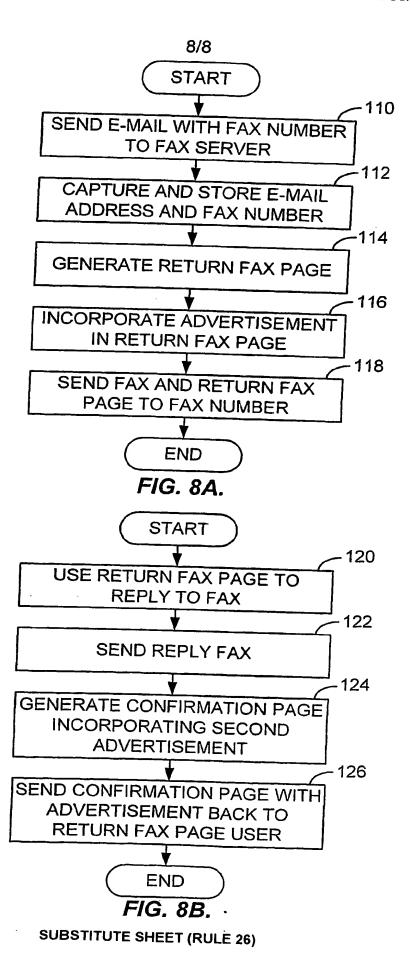
Telephone:

Your personal ID code is: 78W9ZST

FIG. 6.







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